



Maryland Weekly Influenza Surveillance Activity Report

A summary of influenza surveillance indicators reported to MDH for the week ending November 17, 2018

Prepared by the Division of Infectious Disease Surveillance
Prevention and Health Promotion Administration
Maryland Department of Health

The data presented in this document are provisional and subject to change as additional reports are received.

SUMMARY

During the week ending November 17, 2018 influenza-like illness (ILI) intensity in Maryland was **MINIMAL** and there was **SPORADIC** geographic activity. The proportion of outpatient visits for ILI reported by Sentinel Providers decreased. The proportion of outpatient visits for ILI reported by Maryland Emergency Departments increased. The proportion of MRITS respondents reporting ILI slightly decreased. Clinical laboratories reported a decrease in the proportion of specimens testing positive for influenza. Three specimens tested positive for influenza at the MDH lab. There were 3 influenza-associated hospitalizations. There were three respiratory outbreaks reported to MDH.

[Click here to visit our influenza surveillance web page](#)

ILI Intensity Levels

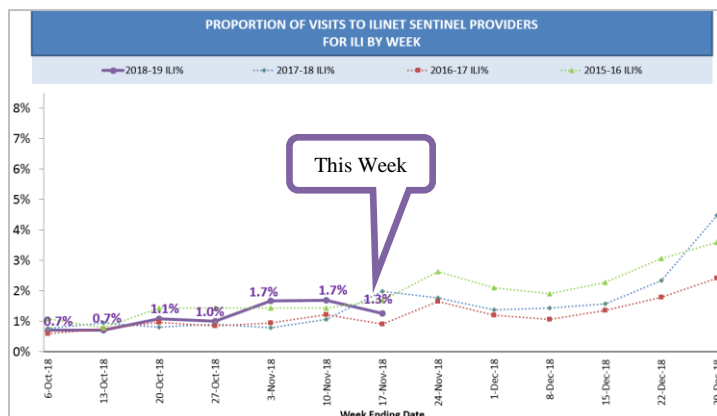
✓ Minimal
Low
Moderate
High

Influenza Geographic Activity

No Activity
✓ Sporadic
Local
Regional
Widespread

ILINet Sentinel Providers

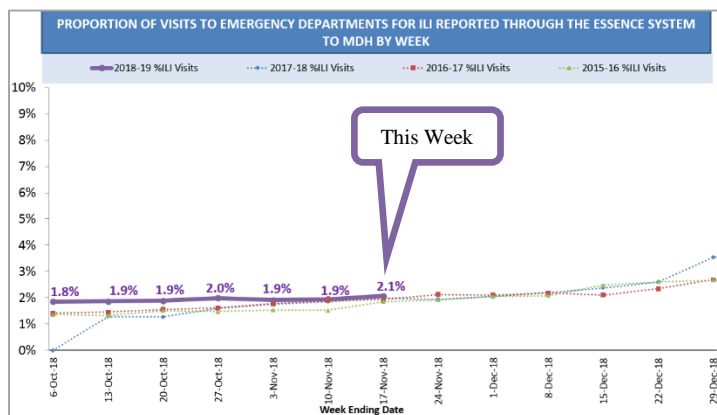
Eighteen providers reported a total of 4,614 visits this week. Of those, 58 (1.3%) were visits for ILI. This is **below** the Maryland baseline of **2.0%**.



ILI Visits To Sentinel Providers By Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	17 (29%)	31 (32%)	161 (29%)
Age 5-24	21 (36%)	34 (35%)	224 (40%)
Age 25-49	10 (17%)	18 (19%)	96 (17%)
Age 50-64	6 (10%)	9 (9%)	47 (8%)
Age ≥ 65	4 (7%)	6 (6%)	34 (6%)
Total	58 (100%)	98 (100%)	562 (100%)

Visits to Emergency Departments for ILI

Emergency Departments in Maryland reported a total of 52,704 visits this week through the [ESSENCE surveillance system](#). Of those, 1,083 (2.1%) were visits for ILI.



ILI Visits To Emergency Departments By Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	273 (25%)	259 (24%)	1,845 (24%)
Age 5-24	355 (33%)	337 (32%)	2,625 (34%)
Age 25-49	289 (27%)	299 (28%)	2,086 (27%)
Age 50-64	112 (10%)	108 (10%)	757 (10%)
Age ≥ 65	54 (5%)	58 (5%)	451 (6%)
Total	1,083 (100%)	1,061 (100%)	7,764 (100%)

Neighboring states' influenza information:

Delaware <http://dhss.delaware.gov/dph/epi/influenzahome.html>

District of Columbia <http://doh.dc.gov/service/influenza>

Pennsylvania <http://www.health.pa.gov/My%20Health/Diseases%20and%20Conditions/I-L/Pages/Influenza.aspx#.V-LtaPkrJD8>

Virginia <http://www.vdh.virginia.gov/epidemiology/influenza-flu-in-virginia/influenza-surveillance/>

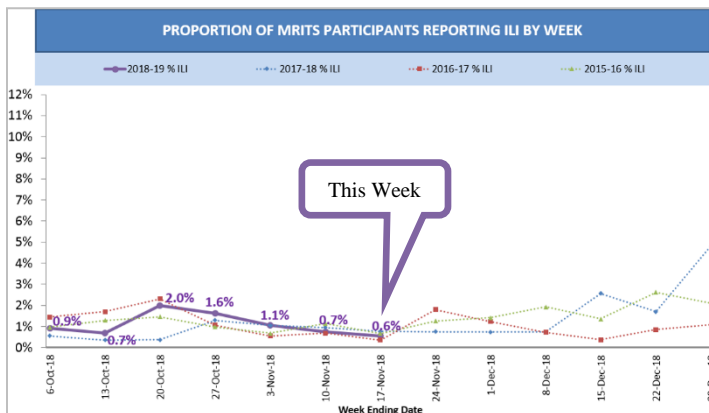
West Virginia <http://dhhr.wv.gov/oeps/disease/flu/Pages/fluSurveillance.aspx>

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Community-based Influenza Surveillance (MRITS)

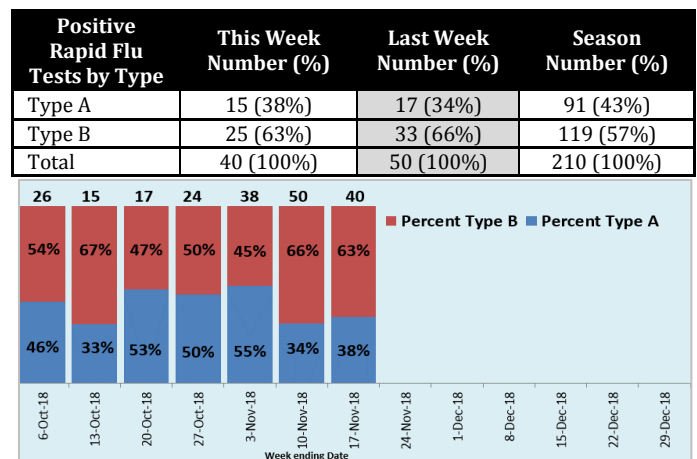
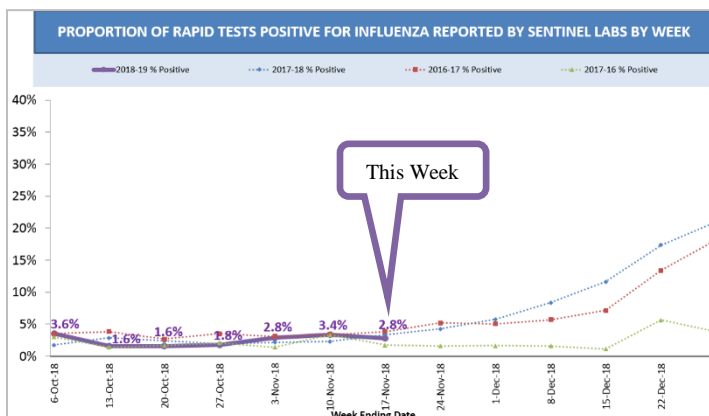
MRITS is the Maryland Resident Influenza Tracking System, a weekly survey for influenza-like illness (ILI). A total of 538 residents responded to the [MRITS survey](#) this week. Of those, 3 (0.6%) reported having ILI and missing >10 cumulative days of regular daily activities.



MRITS Respondents Reporting ILI By Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	0 (50%)	0 (0%)	4 (10%)
Age 5-24	1 (33%)	3 (50%)	10 (24%)
Age 25-49	0 (0%)	1 (17%)	11 (26%)
Age 50-64	2 (67%)	0 (0%)	9 (21%)
Age ≥ 65	0 (0%)	2 (33%)	8 (19%)
Total	3 (100%)	6 (100%)	42 (100%)

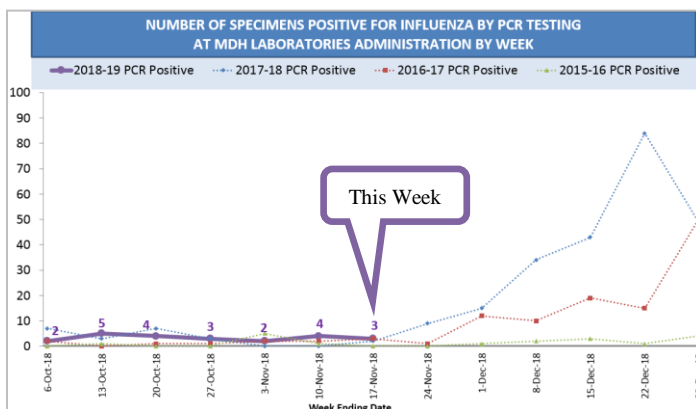
Clinical Laboratory Influenza Testing

There were 51 clinical laboratories reporting 1,446 influenza diagnostic tests, mostly rapid influenza diagnostic tests (RIDTs). Of those, 40 (2.8%) were positive for influenza. Of those testing positive, 15 (38%) were influenza Type A and 25 (63%) were influenza Type B. The [reliability of RIDTs](#) depends largely on the conditions under which they are used. False-positive (and true-negative) results are more likely to occur when the disease prevalence in the community is low, which is generally at the beginning and end of the influenza season and during the summer.



State Laboratories Administration Influenza Testing

The MDH Laboratories Administration performed a total of 65 PCR tests for influenza and 3 (4.6%) were positive for influenza. Of those testing positive, 2 (67%) were positive for Type A (H1) and 1 (33%) was positive for Type B (Victoria). PCR testing is more reliable than RIDT. The MDH testing identifies subtypes of influenza A and lineages of influenza B, information that is not available from the RIDT results. The table below summarizes results by type, subtype, and lineage.



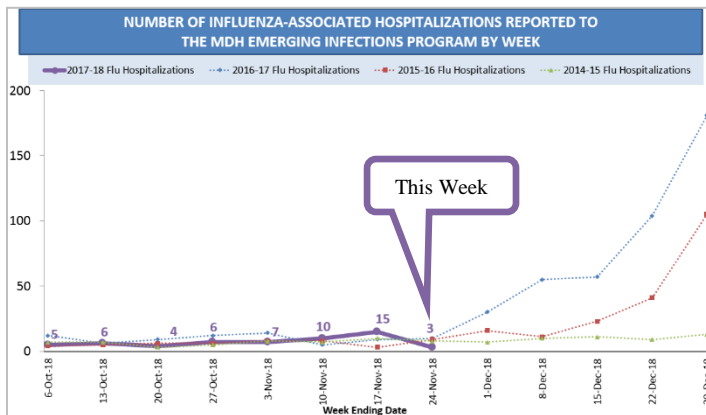
Positive PCR Tests by Type (Subtype)	This Week Number (%)	Last Week Number (%)	Season Number (%)
Type A (H1)	2 (67%)	3 (75%)	10 (43%)
Type A (H3)	0 (0%)	1 (25%)	3 (13%)
Type B (Victoria)	1 (33%)	0 (0%)	10 (43%)
Type B (Yamagata)	0 (0%)	0 (0%)	0 (0%)
Dual Type A (H1/H3)	0 (0%)	0 (0%)	0 (0%)
Total	3 (100%)	4 (100%)	23 (100%)

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Influenza-associated Hospitalizations

A total of 3 influenza-associated hospitalizations were reported this week. (A person with an overnight hospital stay along with a positive influenza test of any kind, e.g., RIDT or PCR, is considered an “influenza-associated hospitalization” for purposes of influenza surveillance.) This surveillance is conducted as a component of the Maryland Emerging Infections Program.



Influenza-Associated Hospitalizations by Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	0 (0%)	2 (20%)	13 (23%)
Age 5-17	0 (0%)	0 (0%)	3 (5%)
Age 18-24	0 (0%)	0 (0%)	1 (2%)
Age 25-49	1 (33%)	3 (30%)	16 (28%)
Age 50-64	2 (67%)	0 (0%)	8 (14%)
Age ≥ 65	0 (00%)	5 (50%)	16 (28%)
Total	3 (100%)	10 (100%)	57 (100%)

Influenza-associated Deaths

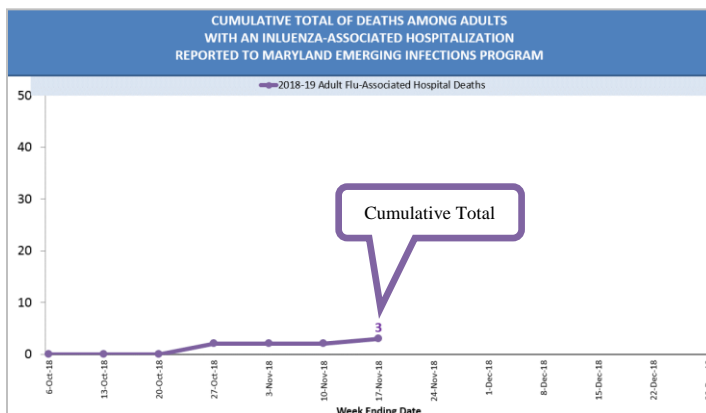
An influenza-associated death is one with a clinically compatible illness and a positive influenza test of any kind.

Pediatric Deaths: No pediatric (< 18 years of age) deaths were reported.

Influenza-associated pediatric mortality is a reportable condition in Maryland. Pediatric deaths are tracked without regard to hospitalization.

Adult Deaths Among Hospitalized Patients: A total of 3 deaths have been reported among adults admitted to Maryland hospitals this influenza season.

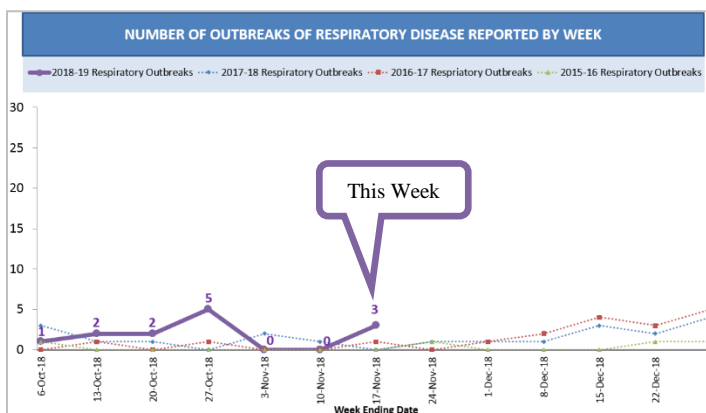
Influenza-associated adult mortality is *not* a reportable condition in Maryland. However, adult mortality surveillance is conducted as a component of the Maryland Emerging Infections Program’s influenza-associated hospitalization surveillance.



Influenza-Associated Deaths	Cumulative Season Total
Pediatric Deaths (Age < 18)	0
Adult Deaths (in hospitalized cases)	3

Outbreaks of Respiratory Disease

There were 3 respiratory outbreaks reported to MDH this week. (Disease outbreaks of any kind are reportable in Maryland. Respiratory outbreaks may be reclassified once a causative agent is detected, e.g., from ILI to influenza.)



Respiratory Outbreaks by Type	This Week Number (%)	Last Week Number (%)	Season Number (%)
Influenza	0 (0%)	0 (0%)	0 (0%)
Influenza-like Illness	2 (67%)	0 (0%)	4 (31%)
Pneumonia	1 (33%)	0 (0%)	9 (69%)
Other Respiratory	0 (0%)	0 (0%)	0 (0%)
Total	3 (100%)	0 (0%)	13 (100%)

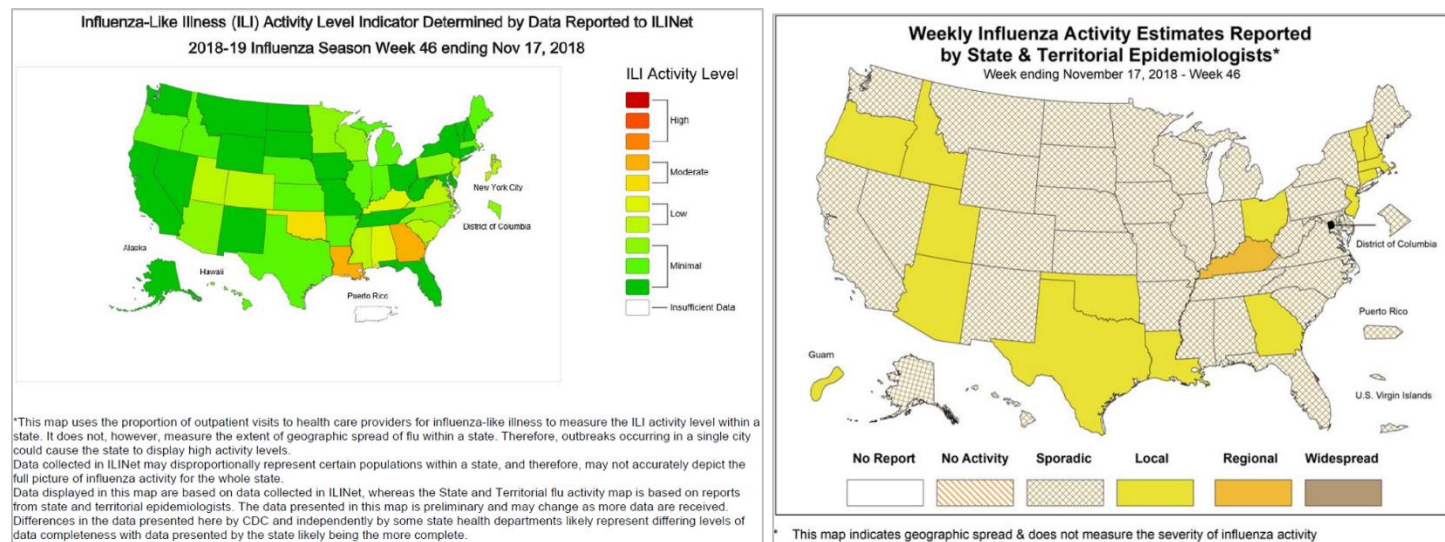
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National Influenza Surveillance (CDC)

During week 46 (November 11-17, 2018), Influenza activity in the United States remains low, although small increases in activity were reported.

- **Viral Surveillance:** Influenza A viruses have predominated in the United States since the beginning of July. The percentage of respiratory specimens testing positive for influenza in clinical laboratories was low.
- **Pneumonia and Influenza Mortality:** The proportion of deaths attributed to pneumonia and influenza (P&I) was below the system-specific epidemic threshold in the National Center for Health Statistics (NCHS) Mortality Surveillance System.
- **Influenza-associated Pediatric Deaths:** One influenza-associated pediatric death was reported to CDC for week 46. This death was associated with an influenza A(H1N1)pdm09 virus.
- **Outpatient Illness Surveillance:** Nationwide during week 46, 1.9% of patient visits reported through the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) were due to influenza-like illness (ILI). This percentage is below the national baseline of 2.2%.
- **Geographic Spread of Influenza:** The geographic spread of influenza in one state was reported as regional; Guam and 14 states reported local activity; and the District of Columbia, Puerto Rico, the U.S. Virgin Islands and 35 states reported sporadic activity.



Where to get an influenza vaccination

Interested in getting a flu vaccine for the 2018-19 influenza season? Go to <https://phpa.health.maryland.gov/influenza/Pages/getvaccinated.aspx> and click on your county/city of residence. You will be redirected to your local health department website for local information on where to get your flu vaccine.